

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

Deliverables

- ### B. Additional Requirements for Streambank Protection.

STATEMENT OF WORK
Streambank and Shoreline Protection (580)
Wyoming

- a. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Stream Type
 - ii. Stability determination (i.e. evolution stage or succession scenario)
 - iii. Water surface elevations for all required discharge conditions
 - iv. Minimum riparian setback
 - a) Method of exclusion/management (livestock/wildlife/human)
 - v. Hydrology/Hydraulics
 - a) Stream flow records
 - b) Recurrence intervals for the Bankfull and design discharge
 - c) Cross Section at Bankfull and design discharge
3. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
 - A. Requirement for both Shoreline and Streambank Protection
 - a. Overall plan view of project
 - i. Include areas of re-vegetation and/or protection
 - b. Typical cross section of protection
 - c. Location and details of appurtenances, such as culverts
 - d. Location and details of temporary benchmarks
 - e. Source of materials
 - f. Table of quantities
 - g. Location map
 - B. Additional Requirement for Streambank Protection
 - a. Project profile for length of proposed protection containing but not limited to
 - i. Thalweg, water surface, bankfull and low berm/terrace
 - ii. Slope values for Thalweg, water surface, bankfull and low berm/terrace, as needed.
 - b. Typical cross section depicting the Thalweg, water surface, bankfull and low berm/terrace elevation.
4. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
5. Operation and Maintenance Plan
6. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b)(2)).
7. Design modifications during installation as required.

INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
 - a. Establishment of temporary bench marks defined in plans.
 - b. Extent of area to be protected
 - c. Necessary cut or fill stakes
 - d. Location stake for appurtenant structures

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4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used.
 - b. Inspection records
 - c. Length of area protected
 - d. Cross section of area protected
 - e. Size and thickness of materials and bedding
 - f. Number, size, and spacing of structures.
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

CHECK OUT**Deliverables**

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Streambank and Shoreline Protection, 580
- NRCS Field Office Technical Guide (eFOTG), Section 1, References, Plant Materials Technical Notice 3, Establishment of Permanent Vegetation
- NRCS Field Office Technical Guide (eFOTG), Section 1, References, Plant Materials Technical Notice 6, Reading Seed Packaging Labels and Calculating Seed Mixtures
- NRCS Field Office Technical Guide (eFOTG), Section 1, References, Plant Materials Technical Notice 9, Plant Materials for Conservation Buffers
- NRCS National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook